

UNCLASSIFIED

AD NUMBER

AD376827

CLASSIFICATION CHANGES

TO: unclassified

FROM: confidential

LIMITATION CHANGES

TO:

Approved for public release, distribution
unlimited

FROM:

Distribution: USGO: others to Director,
Defense Atomic Support Agency, Washington,
D. C. 20301.

AUTHORITY

DSWA ltr., 10 Apr 97; DSWA ltr., 10 Apr 97

THIS PAGE IS UNCLASSIFIED

26

1

XRD-75

AEC RESEARCH AND DEVELOPMENT REPORT

GROUP 1
Excluded from automatic downgrading
and declassification

This material contains information affecting the national defense of the United States within the meaning of the espionage laws, Title 18, U.S.C., Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

Inc 9 of 1

AD No. 376827

DDC FILE COPY

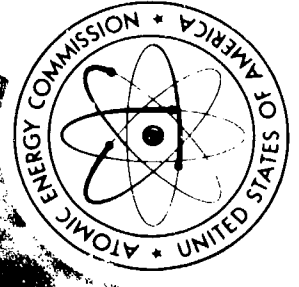
ITAL

TECHNICAL LIBRARY
29 NOV 1965
DEFENSE ATOMIC
SUPPORT AGENCY

A Facsimile Report

DDC

NOV 8 1966



Reproduced by
**UNITED STATES
ATOMIC ENERGY COMMISSION**
Division of Technical Information
P.O. Box 62 Oak Ridge, Tennessee 37831

EXCLUDED FROM AUTOMATIC
DECLASSIFICATION
DOES NOT APPLY
CONFIDENTIAL

ACCESSION FOR	
CESTI	WHITE SECTION <input type="checkbox"/>
BBC	BLUE SECTION <input checked="" type="checkbox"/>
UNANNOUNCED	<input type="checkbox"/>
JUSTIFICATION	
BY	
DISTRIBUTION/AVAILABILITY CODES	
DIST.	AVAIL. and/or SPECIAL
3	

IN ADDITION TO SECURITY REQUIREMENTS WHICH APPLY TO THIS DOCUMENT AND MUST BE MET, EACH TRANSMITTAL OUTSIDE THE AGENCIES OF THE U.S. GOVERNMENT MUST HAVE PRIOR APPROVAL OF THE DIRECTOR, DEFENSE ATOMIC SUPPORT AGENCY, WASHINGTON, D.C. 20301.

CONFIDENTIAL

XRD

75



U.S.S.T 52

TESTABLE

CONFIDENTIAL

[illegible]

OPERATION CROSSROADS

DIRECTOR OF SHIP MATERIAL

JOINT TASK FORCE ONE

CONFIDENTIAL

7-11-60 J. L. J. 11-60

REG. NO. 47

22

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

CONFIDENTIAL

TABLE OF CONTENTS

	PAGE NO.
Ship Characteristics Sheet	3
Midship Section	4
Overall Summary of Damage	5
Hull Technical Inspection Report (Section I)	11
Machinery Technical Inspection Report (Section II)	17
Electrical Technical Inspection Report (Section III)	24
Photographic Section (Section IV)	30
Commanding Officers Report (Appendix)	40

CONFIDENTIAL

Classification (Declassified) (Changed to Security Information
By Authority of JOINT CHIEFS OF STAFF JCS 1780/39 Initial 20 Dec 1962
By *John A. Kuylen* Date *MAY 16 1962*

USS LST 52

CONFIDENTIAL

Security Information
RESTRICTED
ATOMIC ENERGY ACT 1946

GROUP 3

Declassified at 12 year intervals
Not Automatically Declassified

CONFIDENTIAL

Classification (Declassified) (Changed to Security Information
By Authority of JOINT CHIEFS OF STAFF JCS 1780/39 Initial 20 Dec 1962
By *John A. Kuylen* Date *MAY 16 1962*

APPROVED:

For Forest,
Commander, U.S.N.

USS LST 52

CONFIDENTIAL

Security Information
RESTRICTED
ATOMIC ENERGY ACT 1946

CONFIDENTIAL

U.S.S. LST 52

SHIP CHARACTERISTICS

Building Yard: Dravo Corp.; Neville Island, Penns.

Commissioned: 27 November 1943

HULL

Length Overall: 328 feet 0 inches.
Length on Waterline: 318 feet 0 inches.
Beam (extreme): 50 feet 0 inches.
Drafts at time of test: Fwd. 5 feet 3 inches.
Aft. 11 feet 3 inches.
Limiting displacement: 4,080 tons.
Displacement at time of test: 2,915 tons.

MAIN PROPULSION PLANT

Main Engines: Two General Motors Diesels, type: 12-567 A. One per main shaft.
Reduction Gears: "Palk" - Single reduction. One per engine.
Propellers: Two are installed in ship.
Main Shafts: Two are installed in ship.
Ships Service Generators: Three - 100 KW. - 230 volt, D.C. units are installed.

CONFIDENTIAL

Classification (Continued) (Changed to: SECRETLY INSTANT)
By Authority of Joints Chiefs of Staff 23 1786/38 (JCS) 15 APRIL 1948
By JCS 1786/38 (JCS) 15 APRIL 1948
By JCS 1786/38 (JCS) 15 APRIL 1948

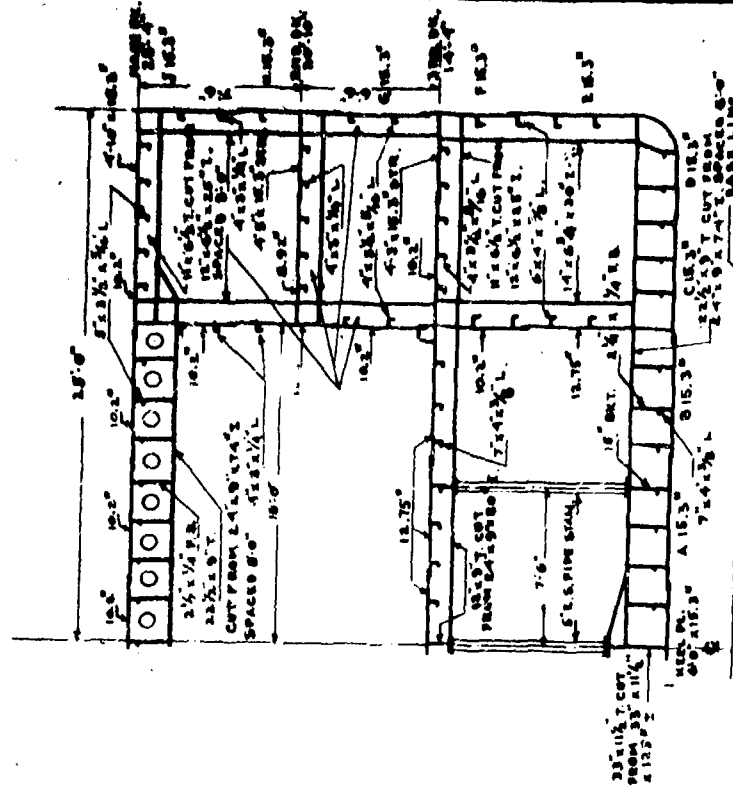
U.S.S. LST 52

Page 3 of 43 Pages

CONFIDENTIAL

ATOMIC ENERGY ACT 1946

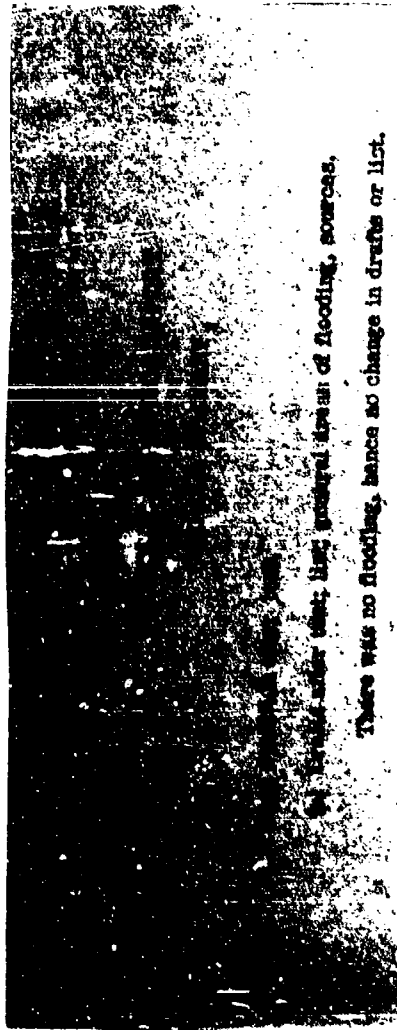
CONFIDENTIAL



MIDSHIP SECTION
TEST A

PAGE 4 OF 43

LST-52



(a) There was no flooding, hence no change in drafts or list.

(b) Structural damage.

HULL

The elevator is badly distorted as the result of air blast and can not be operated. There is minor dishing of the shell plating and deck house bulkhead on the starboard side.

MACHINERY

Blast pressure tore one of the cables away from the elevator platform. This makes the elevator inoperable, although its machinery is undamaged.

ELECTRICAL

No damage to electrical equipment occurred due to structural damage.

(c) Other damage.

HULL

Not observed

MACHINERY

There was no damage to machinery of this vessel during test A.

~~SECRET~~

USS LST 52

HULL

Heat started one fire and scorched a canvas awning on the port quarter and paint on vertical surfaces normal to the burst.

MACHINERY

No evidence.

ELECTRICAL

No electrical damage due to heat was noted.

(b) Fires and explosions.

HULL

The only fire burned a bag of 105 mm powder. There were no explosions.

MACHINERY

No evidence

ELECTRICAL

No electrical damage due to fire or explosions occurred.

USS LST 52

Page 6 of 43 Pages

~~SECRET~~

HULL

Several light bulbs were broken. A porcelain wash basin was shaken from the bulkhead.

MACHINERY

No evidence.

ELECTRICAL

Shock caused a small number of filaments in light bulbs to break and caused pulling out of screw holding a light fixture in the wardroom.

(d) Pressure.

HULL

Air pressure caused deflection of the starboard bulkhead of the deck house and the starboard shell plating. Light top-side equipment is damaged. The elevator platform was pushed down from the main deck securing devices.

MACHINERY

Blast pressure tore loose one of the cables of the tank deck elevator and broke loose heavy scale in the evaporators and some of the piping.

ELECTRICAL

Pressure or blast caused the starboard running light to be blown overboard and the range light to be blown down. Also caused cracked glasses on the 12" searchlights, port and starboard.

(e) Effects peculiar to the Atomic Bomb.

HULL

None.

USS LST 52

Page 7 of 43 Pages

~~SECRET~~

MACHINERY

Blast pressure sufficient to have any noticeable effect at this distance from an explosion is apparently peculiar to the Atom Bomb.

ELECTRICAL

Radio activation was the only peculiar action noted to the atomic bomb.

III. Results of test on target.

(a) Effect on machinery, electrical, and ship control.

HULL

Not observed.

MACHINERY

None. The tank deck elevator is inoperable because of the breaking of one of its hoisting cables, but the machinery is undamaged. It is estimated that this condition could be remedied by the ship's force within 4 hours.

ELECTRICAL

No effect was noted due to electrical damage.

(t) Effect on gunnery and fire control.

HULL

Not observed

MACHINERY

No comment.

SECRET

USS LST 52

Page 8 of 43 Pages

ELECTRICAL

No effect occurred due to electrical damage.

(c) Effect on watertight integrity and stability.

HULL

None.

MACHINERY

No comment.

ELECTRICAL

No effect occurred due to electrical damage.

(d) Effect on personnel and habitability.

HULL

Personnel would have been affected by heat, blast, and radioactivity. Habitability is not affected.

MACHINERY

Personnel below decks would not have been affected by test A. Habitability was not affected.

ELECTRICAL

No effect occurred due to electrical damage.

(e) Effect on fighting efficiency.

HULL

Fighting efficiency is decreased by failure of the elevator which would prevent the landing of equipment stored on the main deck.

SECRET

USS LST 52

Page 9 of 43 Pages

...only layer.
...the ship's
...the ship's
...the ship's
...the ship's

ELECTRICAL

No effect occurred due to electrical damage.

IV. Summary of Observers' Impressions and Conclusions.

HULL

This vessel, except for the elevator, behaved in a very satisfactory manner.

MACHINERY

LST 52 was outside the range of serious damage from the explosion during test A.

ELECTRICAL

At the distance of this vessel from the center of the blast, the effects of the bomb are very slight on electrical equipment. Such effects as were observed can be easily neutralized by changes in design or arrangement.

V. Preliminary recommendations.

HULL

Study should be given to the design of all types of elevators. These behaved poorly during the test.

MACHINERY

None.

ELECTRICAL

It is suggested the running lights be set in and streamlined to the superstructure as protection from the blast.

SECRET

USS LST 52

1. There was no effect on the ship's structure or list.
(a) Drifts after test; list, none.
There was no effect on the ship's structure or list.

(b) Structural Damage.

The elevator is badly damaged and the structure is blasted and can not be operated. There is heavy damage to the deck and deck house bulkhead on the starboard side.

(c) Other damage.

Not observed.

II. Forces Evidenced and Effects Noted.

(a) Heat.

Heat started one fire and scorched a canvas covering on the port quarter and paint on vertical surfaces normal to the blast.

(b) Fires and explosions.

The only fire burned a bag of 106 mm powder. There were no explosions.

(c) Shock.

Several light bulbs were broken. A scullery wash basin was shaken from the bulkhead.

SECRET

USS LST 52

... of the starboard ... and main plating. Light ... was pushed ...

(a) Effects apparently pertinent to the alarm bomb.

III. Effects of Damage.

(a) Effect on machinery, electrical and ship control.

Not observed.

(b) Effect on gunnery and fire control.

Not observed.

(c) Effect on watertight integrity and stability.

None.

(d) Effect on personnel and habitability.

Personnel would have been affected by heat, blast, and radioactivity. Habitability is not affected.

(e) Effect on fighting efficiency.

Fighting efficiency is decreased by failure of the elevator which would prevent the landing of equipment stowed on the main deck.

SECRET

USS LST 52

IV. Casualties.

This vessel suffered no casualties in a very satisfactory manner.

V. Preliminary Observations of Special Inspection Groups.

Study should be given to the design of all parts of elevators. These behaved poorly during the attack.

VI. Instructions for loading the vessel upon the following:

ITEM	LOADING
Fuel Oil	Min.
Diesel Oil	Min.
Ammunition	10%
Potable and reserve feed water	No restriction
Salt water ballast	1219

Details of the actual quantities of the various items aboard are included in Report 7, Stability Inspection Report, submitted by the ship's force in accordance with "Instructions to Target Vessels for Tests and Observations by Ship's Force," issued by the Director of Ships Material. This report is available for inspection in the Bureau of Ships Crossroads Files.

SECRET

USS LST 52

The elevator is badly damaged and cannot be operated. The starboard shell and structure with the exception of the deckhouse are somewhat dished. Miscellaneous equipment topside is damaged. General views of the exterior are shown on pages 31 to 34, inclusive.

B. Superstructure.

The starboard bulkhead of the deckhouse, frames 30 to 50, is dished about 3/4 inch. Light topside equipment is somewhat damaged.

Both running light brackets are torn loose. The starboard running light is blown overboard. The range light is damaged beyond repair.

C. Turrets, Guns and Directors.

No damage.

D. Torpedo Mounts, Depth Charge Gear.

Not Applicable.

E. Weather Deck.

The after port hoisting cable of the elevator broke and the elevator retaining pins near this corner sheared. As a result the elevator platform sagged (Photos 1864-3, 2047-2, pages 35, and 38). The beams supporting the elevator platform are bent and torn (Photos 2047-4, 5, pages 37, and 39). The platform plating has come loose from the supporting structure (Photo 2047-3, page 39).

Specially installed strongbacks were installed on the cargo hatch cover. These prevented movement of the hatch boards. However, one of the strong backs inadvertently was not installed with the result that the hatch boards in this section were displaced.

SECRET

USS LST 52

Page 14 of 43 Pages

A bag of instant powder situated at the stern of the ship, exploded, burning.

F. Exterior Hull.

There is slight dishing of the frames 30 to 49.

G. Interior Compartments (above w.l.l.).

A wash basin was situated in the starboard head of the deck house. There is no other damage.

H. Armor Decks and Miscellaneous Armor.

Not Applicable.

I. Interior Compartments (below w.l.l.).

No damage.

J. Underwater Hull.

No damage.

K. Tanks.

No damage.

L. Flooding.

None.

M. Ventilation.

No damage.

N. Ship Control.

No damage.

SECRET

USS LST 53

Page 15 of 43 Pages

C. Fire Control.

No damage.

P. Ammunition Behavior.

No damage.

Q. Ammunition Handling.

No damage.

R. Strength.

No damage.

S. Miscellaneous.

No comment.

SECRET

USS LST 52

Page 16 of 43 Pages

C. Fire Control.

No damage.

P. Ammunition Behavior.

No damage.

Q. Ammunition Handling.

No damage.

R. Strength.

No damage.

S. Miscellaneous.

No comment.

C. Fire Control.

No damage.

P. Ammunition Behavior.

No damage.

Q. Ammunition Handling.

No damage.

R. Strength.

No damage.

S. Miscellaneous.

No comment.

SECRET

USS LST 52

Page 17 of 43 Pages

USS LST-62

Page 18 of 43 Pages

SECRET

USS LST-62

Page 18 of 43 Pages

SECRET

USS LST-62

Page 18 of 43 Pages

SECRET

USS LST-62

Page 18 of 43 Pages

SECRET

USS LST-62

Page 18 of 43 Pages

SECRET

USS LST-62

Page 18 of 43 Pages

SECRET

USS LST-62

Page 18 of 43 Pages

SECRET

USS LST-62

Page 18 of 43 Pages

SECRET

USS LST-62

Page 18 of 43 Pages

DETAILED DESCRIPTION OF MACHINERY DAMAGE

A. General Description of Machinery Damage.

(a) Overall condition.

The overall condition of the machinery was not changed by Test A.

(b) Areas of major damage.

None.

(c) Primary cause of damage in each area of major damage.

Not Applicable.

(d) Effect of target test on overall operation of machinery plant.

The target test had no effect on the overall operation of the machinery plant. All machinery has been operated since the test.

B. Boilers.

The heating boiler and its appurtenances were not damaged by Test A.

C. Blowers.

Included with "B" - boilers.

D. Fuel Oil Equipment.

Included with "B" - boilers.

SECRET

USS LST 52

Page 20 of 43 Pages

E. Boiler Feedwater Equipment.

Included with "B" - boilers.

F. Main Propulsion Machinery.

Undamaged. Both engines were operated under power for 30 to 40 minutes after Test A. Performance was normal.

G. Reduction Gears.

Undamaged. The reduction gears were checked while the ship was underway. Performance was normal.

H. Shafting and Bearings.

Undamaged. The shafting and bearings were checked while the ship was underway. Performance was normal.

I. Lubrication System.

Undamaged. The system was checked while the ship was underway.

J. Condensers and Air Ejectors.

Not Applicable.

K. Pumps.

No damage was sustained. All pumps have been in normal operation since the test.

L. Auxiliary Generators (Turbines and Gears).

Not Applicable.

SECRET

USS LST 52

Page 21 of 43 Pages

Undamaged. Examination from the surface of the water shows no evidence of damage. No abnormal condition was indicated when the ship shifted berths under her own power.

N. Distilling Plant.

Undamaged. The evaporators were heavily scaled before the test. Scale was jarred loose by the blast.

O. Refrigeration Plant.

Undamaged. The refrigeration plant was placed in operation immediately after the test and functioned normally.

P. Winches, Windlasses, and Capstans.

Undamaged. All deck machinery has been tested under load.

Q. Steering Engine.

Undamaged. The steering engine was operated while the ship was underway and functioned normally.

R. Elevators, Ammunition Hoists, etc.

The machinery of tank deck elevator is apparently undamaged. The elevator is damaged structurally preventing operation. The port after cable tore loose from the elevator platform. Boat davits and gear are intact.

S. Ventilation (Machinery).

Undamaged. All ventilation machinery has been operated since the test. There is some minor damage to casings of ventilation sets, which does not impair operation.

SECRET

USS LST62

Page 22 of 43 Pages

T. Compressed Air Plant.

Undamaged. The air compressors were tested after Test A and functioned normally.

U. Diesels, (Generators and Boats).

Undamaged. All generators were operated under load after the test and functioned normally.

No boats were aboard during the test.

V. Piping Systems.

Undamaged. Some of the piping had heavy corrosion before the test and some scale was jarred loose by the blast. After clearing, all piping was tested under normal operating pressure and was satisfactory.

W. Miscellaneous.

Undamaged.

SECRET

USS LST62

Page 23 of 43 Pages



Damage to Electrical Equipment

(a) Damage to Electrical Equipment

Twelve after test; i.e., general areas of flooding, sources.

No flooding noted in the way of electrical equipment.

(b) Structural Damage.

No damage to electrical equipment occurred due to structural damage.

(c) Other damage.

No electrical damage to machinery occurred.

No electrical damage to ship control occurred other than that the starboard running and range lights were inoperable.

II. Forces Experienced and Effects Noted.

(a) Heat.

No electrical damage due to heat was noted.

(b) Fires and explosions.

No electrical damage due to fires or explosions occurred.

(c) Shock.

Shock caused a small number of filaments in light bulbs to break and caused pulling out of screw holding a light fixture in the ward-room.

SECRET

USS LST 52

V. *Any Preliminary General or Specific Recommendations of the Inspecting Group.*

It is suggested the running lights be set in and streamlined to the superstructure as protection from the blast.

a starboard running light was blown down.

port starboard light, port and starboard.

(e) Any effects apparently peculiar to the atom bomb.

Radio activation was the only peculiar action noted to the atom bomb.

III. Effects of Damage.

(a) Effect on propulsion and ship control.

No effect was noted due to electrical damage.

(b) Effect on gunnery and fire control.

No effect occurred due to electrical damage.

(c) Effect on water-tight integrity and stability.

No effect occurred due to electrical damage.

(d) Effect on personnel and habitability.

No effect occurred due to electrical damage.

(e) Total effect on fighting efficiency.

No effect occurred due to electrical damage.

IV. General Summary of Observers' Impressions and Conclusions.

At the distance of this vessel from the center of the blast, the effects of the bomb are very slight on electrical equipment. Such effects as were observed can be easily neutralized by changes in design or arrangement.

SECRET

USS LST 52

SECRET

USS LST 52

F. Switchboards, Distribution and Transfer Panels.

No damage.

G. Wiring, Wiring Equipment and Wierways.

No damage.

H. Transformers.

Not Applicable.

I. Submarine Propelling Batteries.

Not Applicable.

J. Portable Batteries.

No damage.

K. Motors, Motor Generator Sets and Motor Controllers.

No damage.

L. Lighting Equipment.

No damage occurred except as follows:

The starboard running light and range light carried away due to blast.

M. Searchlights.

No damage.

N. Degaussing Equipment.

No damage.

SECRET

USS LST 52

No major damage occurred except the starboard running light and range light carried away.

(c) Primary causes of damage in each area of major damage.

The cause of all electrical damage is the blast.

(d) Effect of target test on overall operation of electric plant.

None.

(e) Types of equipment most affected.

Running and range lights.

B. Electric Propulsion Rotating Equipment.

Not Applicable.

C. Electric Propulsion Control Equipment.

Not Applicable.

D. Generators - Ships Service.

No damage.

E. Generators - Emergency.

Not Applicable.

SECRET

USS LST 52

SECTION IV

PHOTOGR. PHS

TEST ABLE

USS LST 52

Page 30 of 43 Pages

SECRET

No damage.

Q. Ship's Services Telephones.

Not Applicable.

R. Announcing Systems.

Not Applicable.

S. Telegraphs.

No damage.

T. Indicating Systems.

No damage.

U. LC. and A.C.O. Switchboards.

Not Applicable.

V. F. C. Switchboard.

Not Applicable.

USS LST 52

Page 29 of 43 Pages

SECRET



BA-CR-196-184-28. View from off port bow before Test A.

SECRET

Page 31 of 43 Pages

USS LST-52

9344

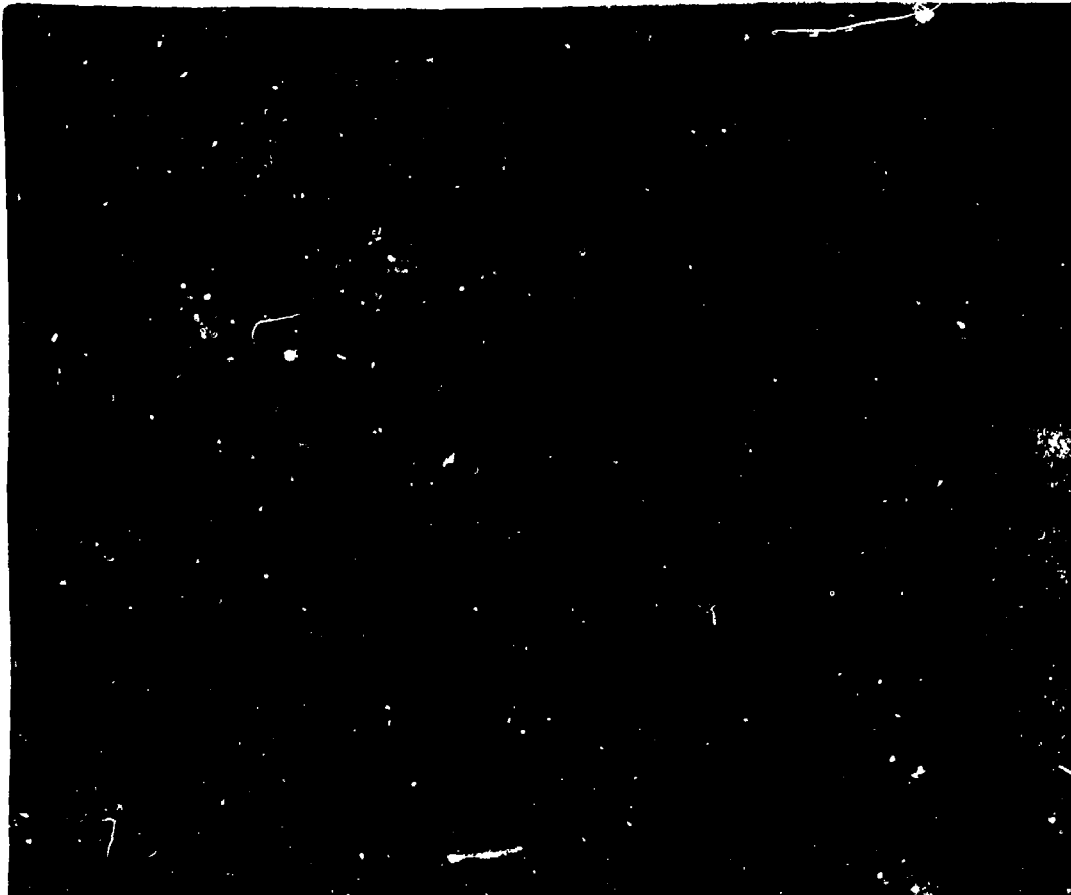


AA-CR-227-50-25. View from off port bow after Test A.

SECRET

Page 32 of 43 Pages

USS LST-52
9344

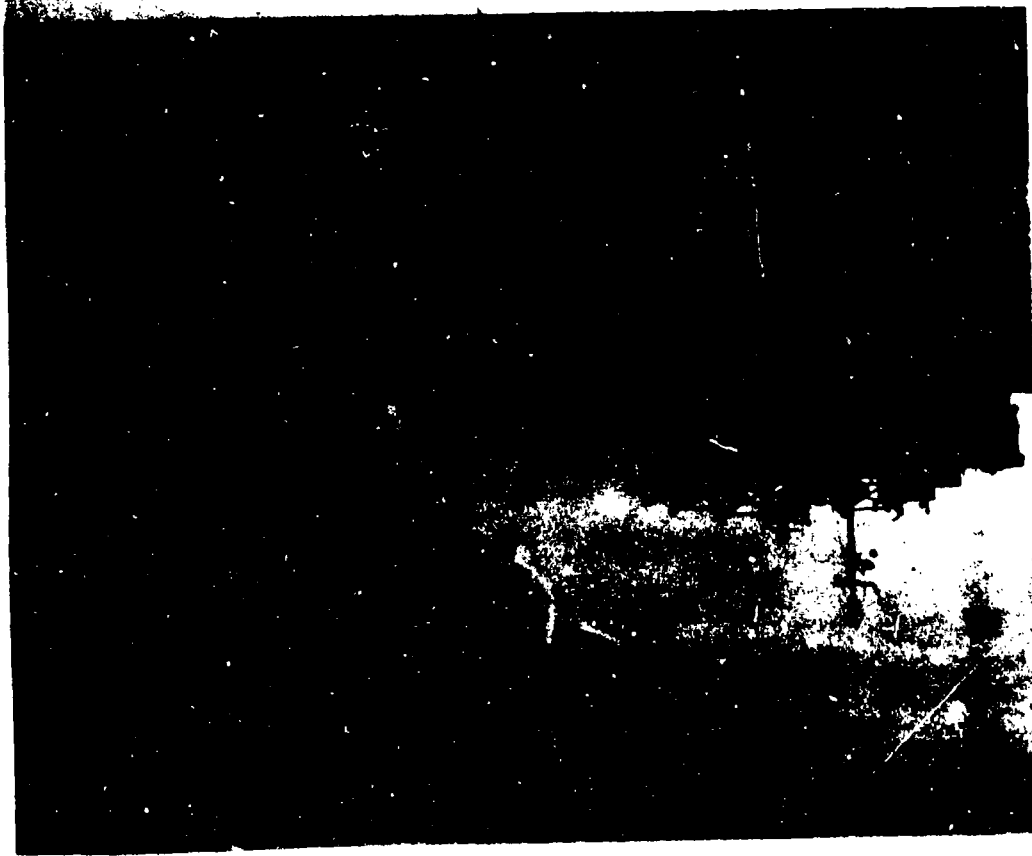


BA-CR-106-164-31. View from off starboard beam during Test A.

SECRET

Page 33 of 43 Pages

USS LST-52
9344

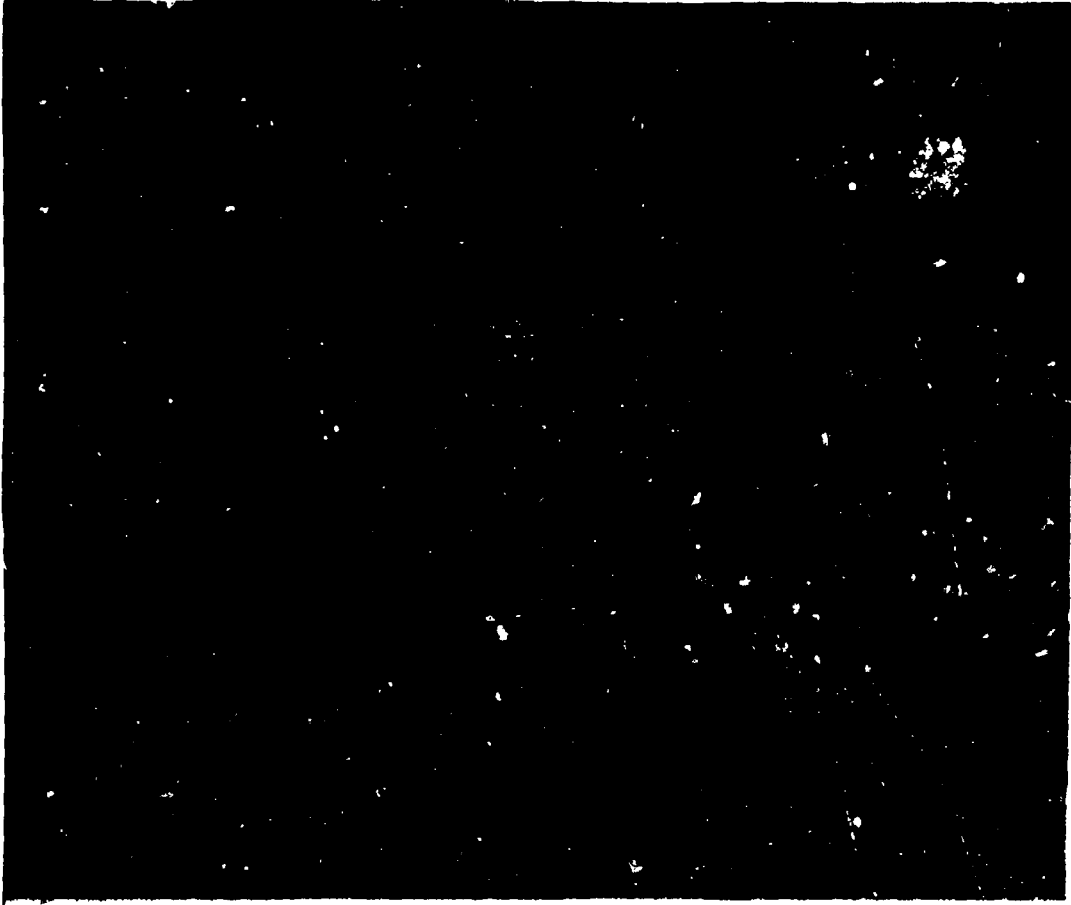


AA-CR-227-91-10. View from off starboard beam after Test A.

SECRET

Page 34 of 43 Pages

USS LST-52
9500



AA-CR-81-1684-3. Looking aft at damaged elevator platform.

SECRET

Page 35 of 43 Pages

USS LST-52
9500

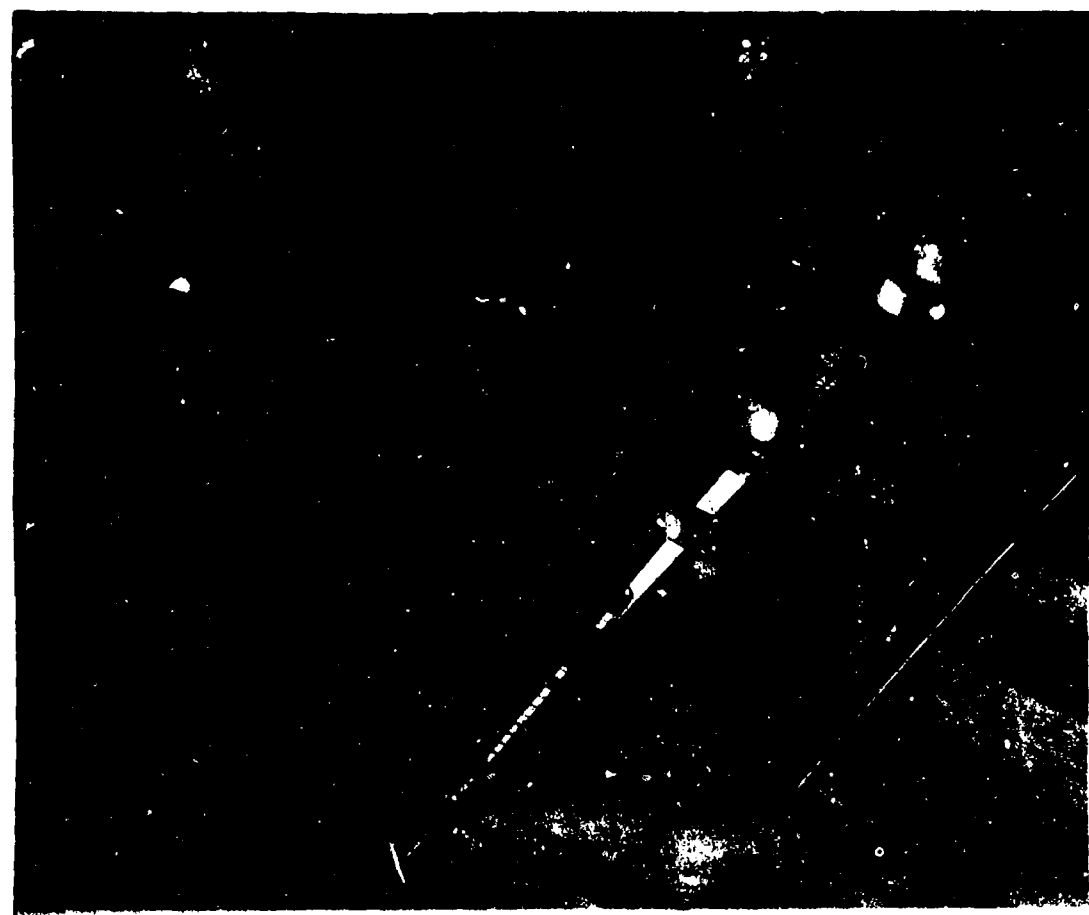


AA-CR-66-2047-2. Damage to elevator platform.

SECRET

USS LST-52
9544

Page 36 of 43 Pages

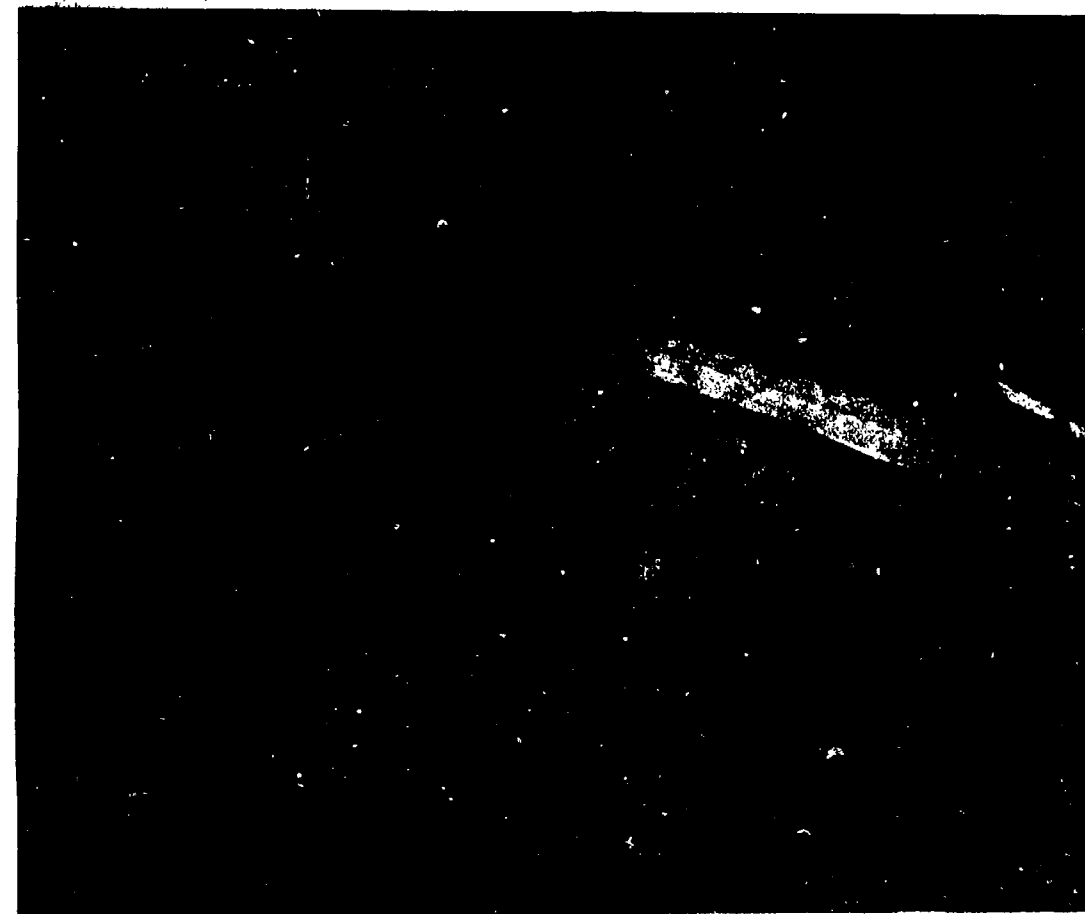


AA-CR-66-2047-4. Damage to elevator platform.

SECRET

USS LST-52
9544

Page 37 of 43 Pages

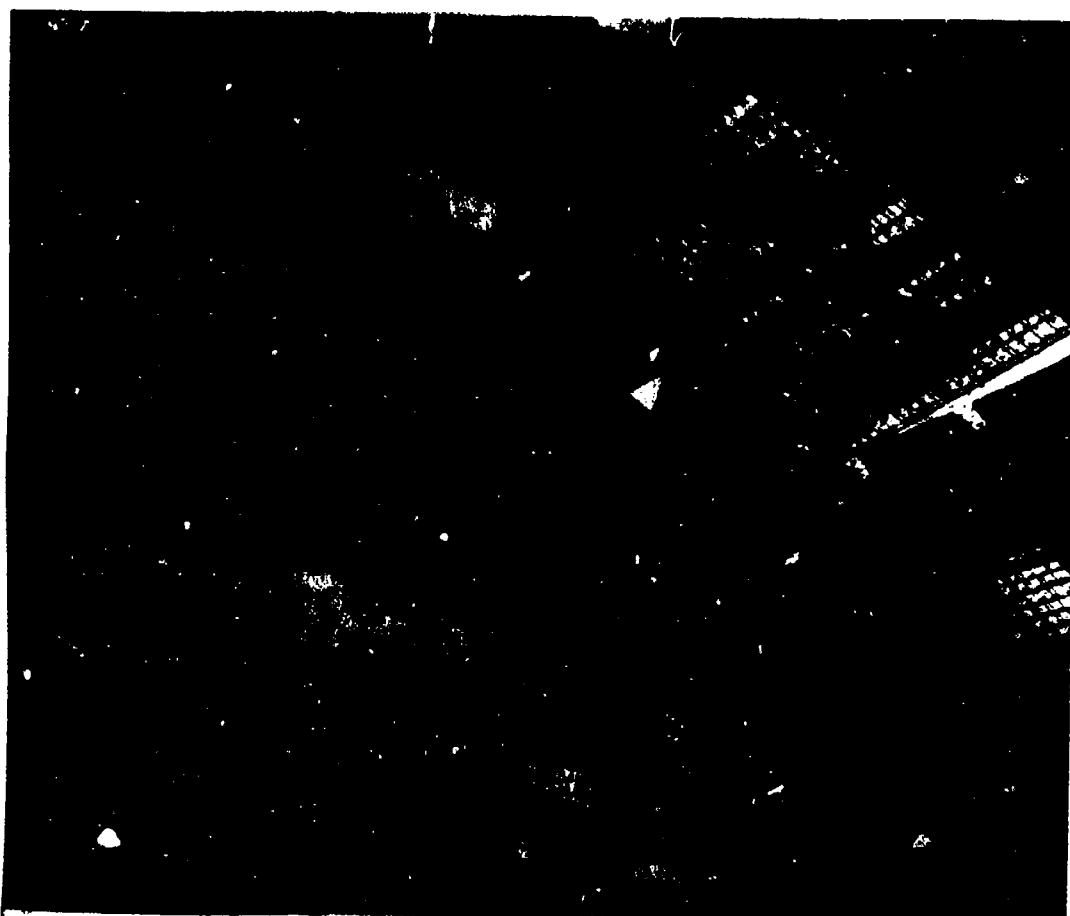


AA-CR-66-2047-5. Damage to elevator platform.

SECRET

USS LST-52
9544

Page 38 of 43 Pages



AA-CR-66-2047-3. Displaced platform plating on elevator.

SECRET

USS LST-52
9544

Page 39 of 43 Pages

REPORT 11

COMMANDING OFFICERS REPORT

SECTION I

LST 66, class of LST's 1 to 493, anchored in berth 108 in 21 fathoms of water, bearing 186° true from the U.S.S. NEVADA, (BB36), distance 1503 yards.

The material condition of the ship at the time of the test was in very good condition, all water tight doors, latches, closures and fittings were in an operating condition. All compartments, machinery spaces, holds, storerooms, voids, tanks and cofferdams were water-tight as far as the ship's force could determine without applying an air test.

All equipment was in a satisfactory condition, exclusive of the public announcing system.

There was no gasoline or kerosene aboard. All fuel oil was in A-418-F. There was six cylinders of acetylene gas and oxygen in brackets on main deck at frame 36, starboard side, no other explosives or inflammables were on board except what army ordnance and army chemical warfare placed on board for experimental purposes.

U.S.S. LST 52

Page 41 of 43 Pages

USS LST 52

Page 40 of 43 Pages

SECRET

SECRET

COMMANDING OFFICERS REPORT

TEST ABLE

SECTION II

Damage as the result of the test is that the hull plating from the water line to the main deck between the frames 20 and 40 were caved in from 1 to 3 inches between the frames, apparently caused by the blast. Superstructure bulkhead or deck house on starboard side was caved in from 1 to 3 inches between frames, from frames 30 to 60, apparently caused by blast. Port and starboard running light brackets were blasted loose being on main deck in a damaged condition, starboard running light was carried overboard by the blast. Range light was blasted loose from bracket and lying on boat deck beyond repair.

The elevator going from the tank deck to main deck forward was raised out of its secured position evidently caused by a vacuum on the tank deck from the blast. This caused the after hoisting wires to jump out of their sheaves breaking the securing pads on the after port corner allowing the after end of the elevator to drop about three feet. This caused the thwartship beams to bend and tearing loose the plating from the beams which made the elevator beyond ship's force repair.

There were several light bulbs blown out and shattered in the officers country and on the second deck, due to the blast.

The ventilation duct in passageway between radio shack and chart room was bulged out, due to the blast.

Due to the small damage to this ship by the test, it is believed that the ship could of stayed in action. If the ship was on the beach unloading troops and vehicles it would of been impossible to move vehicles from the main deck to the tank decks for running to the beach, otherwise there was no apparent damage to take the ship out of action.

SECRET

U.S.S. LST 52

Page 42 of 43 Pages

CONFIDENTIAL SECTION III

The effects of the target test on this ship, outside of all damages as mentioned in the foregoing there is evident that the ship listed or rolled excessively, due to decks, chairs and other articles being turned over. The army ammunition placed aboard especially for the test, there were only about six items which were ignited which were on the starboard side of the forecastle, these items never caused damage to the structural part of the ship. Other test material and items placed aboard remained undamaged.

There was no evidence of any fires breaking out in any part of the ship. No flooding of any nature occurred, upon reboarding the ship by team "Able" the drafts fore and aft, the trim and all soundings of voids and tanks were the same as it was when abandoned ship.

It is believed that any personnel that would of been aboard on the weather decks would of survived the test if they would of been on the leeward side under cover or behind some sort of shielding away from the heat wave and the blast. All personnel below decks could have survived due to no radio activity being aboard according to geiger counters.

SECRET

U.S.S. LST 52

Page 43 of 43 Pages

CONFIDENTIAL

CAUTION

This Document Contains
ATOMIC WEAPONS INFORMATION

NOTICE

This document contains atomic weapons information. Distribution is limited to recipients authorized by the Defense Atomic Support Agency (DOD) and/or the Division of Military Application (AEC)

DATE FILMED

6 / 17 / 65

END



TRC

Defense Special Weapons Agency
6801 Telegraph Road
Alexandria, Virginia 22310-3398

10 April 1997

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER
ATTENTION: OMI/Mr. William Bush

SUBJECT: Declassification of Reports

The Defense Special Weapons Agency (formerly Defense Nuclear Agency) Security Office has reviewed and declassified the following reports:

AD-366718✓	XRD-32-Volume 3	
AD-366726✓	XRD-12-Volume 2	
AD-366703✓	XRD-16-Volume 1	
AD-366702✓	XRD-14-Volume 2	
AD-376819L✓	XRD-17-Volume 2	
AD-366704✓	XRD-18	
AD-367451✓	XRD-19-Volume 1	
AD-366700 ⁰⁵ ✓	XRD-20-Volume 2	AD-366705✓
AD-376028L✓	XRD-4	
AD-366694✓	XRD-1	
AD-473912✓	XRD-193	
AD-473891✓	XRD-171	
AD-473899✓	XRD-163	
AD-473887✓	XRD-166	
AD-473888✓	XRD-167	ST-A 28 JAN 80 made target
AD-473889✓	XRD-168	

TRC

10 April 1997

SUBJECT: Declassification of Reports

AD-B197749	XRD-174
AD-473905✓	XRD-182
AD-366719✓	XRD-33 Volume 4
AD-366700✓	XRD-10
AD-366712✓	XRD-25 Volume 1
AD-376827L✓	XRD-75
AD-366756✓	XRD-73
AD-366757✓	XRD-74
AD-366755✓	XRD-72
AD-366754✓	XRD-71
AD-366710✓	XRD-23 Volume 1
AD-366711✓	XRD-24 Volume 2
AD-366753✓	XRD-70
AD-366749✓	XRD-66
AD-366701✓	XRD-11
AD-366745✓	XRD-62.

All of the cited reports are now **approved for public release; distribution statement "A" applies.**

Arndith Jarrett
ARDITH JARRETT
Chief, Technical Resource Center

copy furn: FC/DSWA (DASIAC)
KSC

Completed

L.W